



Ministry of  
Northern Development  
and Mines

Ontario

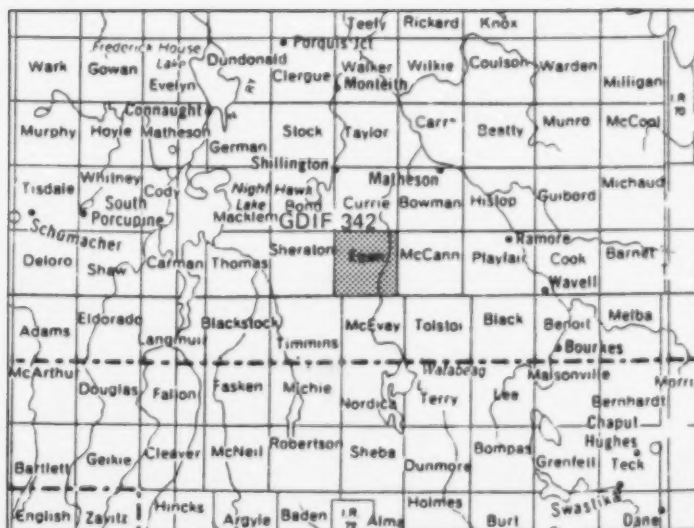
ONTARIO GEOLOGICAL SURVEY  
GEOLOGICAL DATA INVENTORY FOLIO

GDIF 342

# EGAN TOWNSHIP

DISTRICT OF COCHRANE

Compiled by the staff of  
the Resident Geologist's Office  
Kirkland Lake



LOCATION MAP

Scale: 1:1 013 760 or 1 inch to 16 miles

NTS Number 42A/7

## Mining Claim Map Number

This Project is part of Operation Black River-Matheson (BRIM) which was funded equally by the Ontario Ministry of Northern Development and Mines and the Ontario Ministry of Natural Resources.

**STATEMENT:** This inventory is unedited. Discrepancies may occur for which the Ontario Geological Survey does not assume liability. Information from this source may be quoted if credit is given. Reference to this inventory should be made as follows:

## Ontario Geological Survey

1987: Egan Township, District of Cochrane;  
Ontario Geological Survey, Geological  
Data Inventory Folio 342, compiled by the  
staff of the Resident Geologist's Office  
Kirkland Lake, 18p. and 2 maps.

**Original Compilation by:**

F.M. Boucher, W.J. Dennis, K.D. Kalicharran,  
P.E. Savarie, and B.J. Westin, September 30, 1986.

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### ACCOMPANYING MAPS

Property Location Map 1

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Map Scale 1: 31 680 or 1 inch to ½ mile

# CONVERSION FACTORS FOR MEASUREMENTS IN ONTARIO GEOLOGICAL SURVEY PUBLICATIONS

If the reader wishes to convert imperial units to SI (metric) units or SI units to imperial units the following multipliers should be used:

## CONVERSION FROM SI TO IMPERIAL

## CONVERSION FROM IMPERIAL TO SI

| SI Unit              | Multiplied by | Gives                    | Imperial Unit              | Multiplied by          | Gives           |
|----------------------|---------------|--------------------------|----------------------------|------------------------|-----------------|
| <b>LENGTH</b>        |               |                          |                            |                        |                 |
| 1 mm                 | 0.039 37      | inches                   | 1 inch                     | <b>25.4</b>            | mm              |
| 1 cm                 | 0.393 70      | inches                   | 1 inch                     | <b>2.54</b>            | cm              |
| 1 m                  | 3.280 84      | feet                     | 1 foot                     | <b>0.304 8</b>         | m               |
| 1 m                  | 0.049 709 7   | chains                   | 1 chain                    | 20.116 8               | m               |
| 1 km                 | 0.621 371     | miles (statute)          | 1 mile (statute)           | <b>1.609 344</b>       | km              |
| <b>AREA</b>          |               |                          |                            |                        |                 |
| 1 cm <sup>2</sup>    | 0.155 0       | square inches            | 1 square inch              | <b>6.451 6</b>         | cm <sup>2</sup> |
| 1 m <sup>2</sup>     | 10.763 9      | square feet              | 1 square foot              | <b>0.092 903 04</b>    | m <sup>2</sup>  |
| 1 km <sup>2</sup>    | 0.386 10      | square miles             | 1 square mile              | 2.589 988              | km <sup>2</sup> |
| 1 ha                 | 2.471 054     | acres                    | 1 acre                     | 0.404 685 6            | ha              |
| <b>VOLUME</b>        |               |                          |                            |                        |                 |
| 1 cm <sup>3</sup>    | 0.061 02      | cubic inches             | 1 cubic inch               | <b>16.387 064</b>      | cm <sup>3</sup> |
| 1 m <sup>3</sup>     | 35.314 7      | cubic feet               | 1 cubic foot               | 0.028 316 85           | m <sup>3</sup>  |
| 1 m <sup>3</sup>     | 1.308 0       | cubic yards              | 1 cubic yard               | 0.764 555              | m <sup>3</sup>  |
| <b>CAPACITY</b>      |               |                          |                            |                        |                 |
| 1 L                  | 1.759 755     | pints                    | 1 pint                     | 0.568 261              | L               |
| 1 L                  | 0.879 877     | quarts                   | 1 quart                    | 1.136 522              | L               |
| 1 L                  | 0.219 969     | gallons                  | 1 gallon                   | <b>4.546 090</b>       | L               |
| <b>MASS</b>          |               |                          |                            |                        |                 |
| 1 g                  | 0.035 273 96  | ounces (avdp)            | 1 ounce (avdp)             | 28.349 523             | g               |
| 1 g                  | 0.032 150 75  | ounces (troy)            | 1 ounce (troy)             | <b>31.103 476 8</b>    | g               |
| 1 kg                 | 2.204 62      | pounds (avdp)            | 1 pound (avdp)             | <b>0.453 592 37</b>    | kg              |
| 1 kg                 | 0.001 102 3   | tons (short)             | 1 ton (short)              | <b>907.184 74</b>      | kg              |
| 1 t                  | 1.102 311     | tons (short)             | 1 ton (short)              | <b>0.907 184 74</b>    | t               |
| 1 kg                 | 0.000 984 21  | tons (long)              | 1 ton (long)               | <b>1016.046 908 8</b>  | kg              |
| 1 t                  | 0.984 206 5   | tons (long)              | 1 ton (long)               | <b>1.016 046 908 8</b> | t               |
| <b>CONCENTRATION</b> |               |                          |                            |                        |                 |
| 1 g/t                | 0.029 166 6   | ounce (troy)/ton (short) | 1 ounce (troy)/ton (short) | 34.285 714 2           | g/t             |
| 1 g/t                | 0.583 333 33  | pennyweights/ton (short) | 1 pennyweight/ton (short)  | 1.714 285 7            | g/t             |

## OTHER USEFUL CONVERSION FACTORS

|                            |      |                          |
|----------------------------|------|--------------------------|
| 1 ounce (troy)/ton (short) | 20.0 | pennyweights/ton (short) |
| 1 pennyweight/ton (short)  | 0.05 | ounce (troy)/ton (short) |

One gram(g) per tonne is equivalent to one part per million (1 ppm).

NOTE—Conversion factors which are in bold type are exact. The conversion factors have been taken from or have been derived from factors given in the Metric Practice Guide for the Canadian Mining and Metallurgical Industries published by The Mining Association of Canada in co-operation with the Coal Association of Canada.

## DATA SOURCES CHECK LIST

NOTE: The following sources have been searched to compile the data for this area. If no reference data was found the appropriate box is marked 'no'; if reference data was found, the box is marked 'yes'.

All reference data found are included in the following pages. If the box is blank, the data source has not yet been searched. If the box is marked N.A., the source item is Not Applicable to this area and therefore not searched.

| SOURCES OF DATA |                                                                          | Data | Initial |
|-----------------|--------------------------------------------------------------------------|------|---------|
| 1               | Resident Geologist's Office Files                                        | YES  | W.J.D.  |
| 2               | Assessment Files Research Office, Toronto                                | YES  | P.E.S.  |
| 3               | ODM General Index; 9 volumes                                             | YES  | P.E.S.  |
| 4               | Catalogue of Airborne Geophysical Surveys (ODM)                          | -    | -       |
| 5               | ODM Mineral Resources Circulars and OGS Mineral Deposits Circulars       | YES  | K.D.K.  |
| 6               | ODM Industrial Mineral Reports                                           | NO   | K.D.K.  |
| 7               | Bibliography of Post Precambrian Theses - Karrow (ODM MP 1)              | NO   | W.J.D.  |
| 8               | Bibliography of Precambrian Theses - Ginn (ODM MP 2)                     | YES  | W.J.D.  |
| 9               | Newspaper Clippings File                                                 | YES  | W.J.D.  |
| 10              | GSC Index to Publications                                                | YES  | W.J.D.  |
| 11              | OGS Index to Published Maps and Reports - MP 77 and Supplements to MP 77 | YES  | W.J.D.  |
| 12              | OGS Index Maps                                                           | YES  | K.D.K.  |
| 13              | Source Mineral Deposit Records (O.G.S.)                                  | NO   | K.D.K.  |
| 14              | Author - Subject Articles File                                           | YES  | K.D.K.  |
| 15              | Miscellaneous Papers: ODM & OGS                                          | YES  | W.J.D.  |
| 16              | ODM Geological Circulars: OGS Study Series                               | NO   | K.D.K.  |
| 17              | ODM Preliminary Reports: ODM Bulletins                                   | NO   | K.D.K.  |
| 18              | ODM - OGS Open File Reports                                              | YES  | K.D.K.  |
| 19              | OGS Northern Ontario Engineering Geology Terrain Studies                 | YES  | K.D.K.  |
| 20              | OGS Aggregate Resources Inventory Papers                                 | NO   | K.D.K.  |
| 21              | OGS Mineral Potential Maps                                               | YES  | K.D.K.  |
|                 |                                                                          |      |         |

# METALS AND MINERALS REFERENCES LIST

|             |                      |             |                       |              |                       |             |              |
|-------------|----------------------|-------------|-----------------------|--------------|-----------------------|-------------|--------------|
| Δ anh.....  | Anhydrite            | Δ fu.....   | Fuchsite              | Δ Ni.....    | Nickel                | Δ st.....   | Stone        |
| Δ ank.....  | Ankerite             | Δ gn.....   | Galena                | Δ Nb.....    | Niobium               | Δ talc..... | Talc         |
| Δ anna..... | Annabergite          | Δ gt.....   | Garnet                | Δ Pd.....    | Palladium             | Δ Te.....   | Tellurium    |
| Δ ap.....   | Apatite              | Δ gos.....  | Goethite              | Δ peat.....  | Peat                  | Δ td.....   | Tetrahedrite |
| Δ arg.....  | Argentite            | Δ Au.....   | Gold                  | Δ pent.....  | Pentlandite           | Δ th.....   | Thorite      |
| Δ As.....   | Arsenic              | Δ gf.....   | Graphite              | Δ Pt.....    | Platinum              | Δ Th.....   | Thorium      |
| Δ asp.....  | Arsenopyrite         | Δ gl.....   | Gravel                | Δ py.....    | Pyrite                | Δ thuc..... | Thucholite   |
| Δ asb.....  | Asbestos             | Δ gyp.....  | Gypsum                | Δ pyl.....   | Pyrochlore            | Δ ti.....   | Titanite     |
| Δ ba.....   | Barite               | Δ hem.....  | Hematite              | Δ pyrl.....  | Pyrolusite            | Δ Ti.....   | Titanium     |
| Δ be.....   | Beryl                | Δ il.....   | Ilmenite              | Δ po.....    | Pyrrhotite            | Δ tour..... | Tourmaline   |
| Δ Bi.....   | Bismuth              | Δ Fe.....   | Iron                  | Δ q.....     | Quartz                | Δ trap..... | Trap rock    |
| Δ bn.....   | Bornite              | Δ IF.....   | Iron Formation        | Δ qcv.....   | Quartz carbonate vein | Δ W.....    | Tungsten     |
| Δ bran..... | Brannerite           | Δ jas.....  | Jasper                | Δ ra.....    | Radioactive minerals  | Δ uran..... | Uraninite    |
| Δ bruc..... | Brucite              | Δ kaol..... | Kaolinite (kaolin)    | Δ RE.....    | Rare Earths           | Δ U.....    | Uranium      |
| Δ Cd.....   | Cadmium              | Δ ky.....   | Kyanite               | Δ sd.....    | Sand                  | Δ verm..... | Vermiculite  |
| Δ calc..... | Calcite              | Δ Pb.....   | Lead                  | Δ sgl.....   | Sand and gravel       | Δ Y.....    | Yttrium      |
| Δ carb..... | Carbonate            | Δ lim.....  | Limonite              | Δ ss.....    | Sandstone             | Δ Zn.....   | Zinc         |
| Δ cel.....  | Celestite            | Δ Li.....   | Lithium               | Δ scap.....  | Scapolite             | Δ zr.....   | Zircon       |
| Δ cc.....   | Chalcocite           | Δ mgst..... | Magnetite             | Δ shee.....  | Scheelite             |             |              |
| Δ cp.....   | Chalcopyrite         | Δ mag.....  | Magnetite             | Δ serp.....  | Serpentine            |             |              |
| Δ ch.....   | Chert                | Δ mc.....   | Malachite             | Δ sh.....    | Shale                 |             |              |
| Δ clay..... | Clay                 | Δ Mn.....   | Manganese             | Δ sid.....   | Siderite              |             |              |
| Δ Co.....   | Cobalt               | Δ mb.....   | Marble                | Δ si.....    | Silica                |             |              |
| Δ cob.....  | Cobaltite            | Δ mar.....  | Marcasite             | Δ Ag.....    | Silver                |             |              |
| Δ cb.....   | Columbite            | Δ ma.....   | Marl                  | Δ sl.....    | Slate                 |             |              |
| Δ Cu.....   | Copper               | Δ mi.....   | Mica                  | Δ sm.....    | Smaltite              |             |              |
| Δ cor.....  | Corundum             | Δ ml.....   | Millerite             | Δ sod.....   | Sodalite              |             |              |
| Δ dol.....  | Dolomite             | Δ mo.....   | Molybdenite           | Δ spec.....  | Specularite           |             |              |
| Δ ep.....   | Epidote              | Δ Mo.....   | Molybdenum            | Δ sp.....    | Sphalerite            |             |              |
| Δ ery.....  | Erythrite            | Δ mon.....  | Monazite              | Δ spd.....   | Spodumene             |             |              |
| Δ fel.....  | Feldspar             | Δ ne.....   | Nephelite (nepheline) | Δ staur..... | Staurolite            |             |              |
| Δ fl.....   | Fluorite (fluorspar) | Δ nc.....   | Nicolite              | Δ stib.....  | Stibnite              |             |              |

Solid triangles indicate metal and mineral occurrences shown on the accompanying maps, or mentioned within

Mineral Occurrences.

| MINERAL OCCURRENCES |                            |                | Source Mineral Deposit Record | References in OGS Mineral Deposits Circulars & OGS Industrial Mineral Reports           | Additional References and/or Remarks                                                                                                                                                                      |
|---------------------|----------------------------|----------------|-------------------------------|-----------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Map Ref. Letter     | Name(s)                    | Mineralization |                               |                                                                                         |                                                                                                                                                                                                           |
| A                   | Lightning River Occurrence | Au             | -                             | ODM Map p.22, Egan Tp.<br>ODM 1922, Vol. 31, pt. 7<br>p. 21<br>OGS 1971, MRC 13, p. 127 | Mafic volcanics are intruded by porphyry dikes and a zone of quartz stringers mineralized with pyrite is 100 feet wide and contains low values in gold. In 1916 worked by Lightning River Gold Mines Ltd. |
| B                   | Egan                       | Fe             | -                             | MRC 11 p. 112<br>NMI 42A/7 Fe. 1                                                        |                                                                                                                                                                                                           |

| TYPE OF WORK                                                                     |                                                     |  | Numbers below represent the year in which the work was done; e.g., 68 for 1968. |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|----------------------------------------------------------------------------------|-----------------------------------------------------|--|---------------------------------------------------------------------------------|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|
| EXPLORATION DATA<br>filed at the<br>RESIDENT GEOLOGIST'S OFFICE<br>KIRKLAND LAKE |                                                     |  |                                                                                 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| COMPANY/AUTHOR<br>(file number)                                                  |                                                     |  |                                                                                 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 1                                                                                | Bellechasse Mining Corporation, Ltd.                |  |                                                                                 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 2                                                                                | Blanchette-Porcupine Gold Mines, Ltd.               |  | 36                                                                              |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 3                                                                                | Johns-Manville Canada Inc.                          |  | 82                                                                              |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 4                                                                                | Morin, R.; Larouche, M.                             |  | 75                                                                              |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 5                                                                                | Shogrin Minerals Inc.<br>"Grid N-14,16,43,44,47,48" |  | 83                                                                              |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
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|                                                                                  |                                                     |  |                                                                                 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
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|                                                                                  |                                                     |  |                                                                                 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |

| DRILLHOLE SUMMARY            |              | Company Drillhole Number | Date Drilled | Bearing Azimuth | Initial Dip of Hole | Thickness of Overburden | Total Length of Hole | Mineralization Noted in Log | Assay Data Included for |
|------------------------------|--------------|--------------------------|--------------|-----------------|---------------------|-------------------------|----------------------|-----------------------------|-------------------------|
| Map Drilling Location Number | Company Name |                          |              |                 |                     |                         |                      |                             |                         |
|                              |              |                          |              |                 |                     |                         |                      |                             |                         |

GDIF FORM NO. 3

# **AIRBORNE GEOPHYSICAL SURVEY DATA**

| <div> <div>No.</div> <div>BY<br/>For</div> </div> |  | Type of Survey | Flight<br>Altitude | Flight<br>Line<br>Direction | Flight<br>Line<br>Spacing |
|---------------------------------------------------|--|----------------|--------------------|-----------------------------|---------------------------|
|                                                   |  |                |                    |                             |                           |
|                                                   |  |                |                    |                             |                           |

GDIF FORM NO. 4

|                                              |                                |              |    |           |
|----------------------------------------------|--------------------------------|--------------|----|-----------|
| Map<br>Sample<br>Site<br>Reference<br>Number | <b>GEOCHEMICAL SURVEY DATA</b> |              | By | Reference |
|                                              | Type of Survey                 | Analysis For |    |           |
|                                              |                                |              |    |           |

# MISCELLANEOUS DATA

## AGE DATING

| Site | Method | Material | Reference | Result |
|------|--------|----------|-----------|--------|
|      |        |          |           |        |

|  |
|--|
|  |
|--|

## NEWSPAPER CLIPPINGS FILE

NOTE: A file of newspaper clippings about the companies listed below, who have worked in this area, is maintained in the Regional/Resident Geologist's Office. Kirkland Lake

Northern Miner

Quebec Manitou Mines

March 26, 1970

# ODM GENERAL INDEX SEARCH

Words searched: Egan Township

| Index<br>Volume | Listing:                                                                                                                                                        | Report<br>Volume                                         | Part                                            | Page                                                             |
|-----------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------|-------------------------------------------------|------------------------------------------------------------------|
| 2               | Egan Tp., Coch.<br>Agricultural area,<br>Forest fires<br>Gold<br>prospecting<br>Iron ore<br>Map. see map 31d<br><br>Rocks<br>plan of part<br>Timber; topography | 31<br>31<br>31<br>31<br>31<br>31<br>31<br>31<br>31<br>31 | 7<br>7<br>7<br>10<br>7<br>7<br>7<br>7<br>7<br>7 | 6<br>5<br>18,21,22<br>30<br>18<br><br>iv<br>12,15<br>22<br>27,28 |
| 3               | Egan Tp., Coch<br>Rocks<br>granite                                                                                                                              | 40<br>45                                                 | 3<br>6                                          | 14<br>9                                                          |
| 7               | Egan Township, Tim.<br>Rocks                                                                                                                                    | GR40                                                     |                                                 | 8                                                                |
| 8               | Egan Tp., Coch. Dist.<br>Iron                                                                                                                                   | MRC 11                                                   |                                                 | 112                                                              |
| 9               | Egan Tp., Coch. Dist.<br>Gravity Survey of the Timmins-<br>Matheson area                                                                                        | GR135                                                    |                                                 |                                                                  |

GDIF FORM NO. 8

| SELECTED REFERENCES                   |      | Reference                                            | Map Scales and/or Report Pages |
|---------------------------------------|------|------------------------------------------------------|--------------------------------|
| Author                                | Date |                                                      |                                |
| REGIONAL GEOLOGICAL COMPILATION MAPS  |      |                                                      |                                |
| Boissoneau, A.N.                      | 1965 | ODL & F Map S365                                     | 1:506,880                      |
| Boissoneau, A.N.                      | 1965 | ODL & F Map E465                                     | 1:506,880                      |
| Ginn, R.M.                            | 1964 | ODM Map 2046                                         | 1:253,440                      |
| Lumbers, S.R.<br>Milne, V.G.          | 1976 | OGS Map 2393                                         | 1:1,013,760                    |
| MERO-QGS                              | 1984 | OGS Map 2484<br>Que Map DV83-16                      | 1:500,000                      |
| Ministry of Natural Resources         | 1985 | ODM Map 2472                                         | 1:1,584,000                    |
| Pyke, D.R., Ayres, L.D. & Innes, D.G. | 1973 | ODM Map 2205                                         | 1:253,440                      |
| Data Plotting Services                | 1985 | OGS Resident Geologist's Office, Kirkland Lake, Ont. | 1:80,000                       |
| GEOPHYSICAL MAPS                      |      |                                                      |                                |
|                                       |      |                                                      |                                |

GDI F FORM NO. 9

| Author                 | Date | SELECTED REFERENCES                                                                                                                                               |  | Reference                                                        | Map<br>Scales<br>and/or<br>Report<br>Pages |
|------------------------|------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|------------------------------------------------------------------|--------------------------------------------|
|                        |      | Title                                                                                                                                                             |  |                                                                  |                                            |
| Data Plotting Services | 1985 | Matheson-Black River Area (BRIM) Airborne<br>Magnetic Survey Second Vertical Derivative                                                                           |  | OCS Resident<br>Geologist's<br>Office, Kirkland<br>Lake, Ontario | 1:100,000                                  |
| Middleton, R.S.        | 1976 | Gravity Survey of Geological Structures in the<br>Timmins and Matheson Area; NTS 42A, Cochrane,<br>Sudbury and Timiskaming Districts                              |  | ODM GR 135<br>Maps 2321<br>2322                                  | 1:250,000<br>1:250,000                     |
| ODM-GSC                | 1970 | Watabeag River, Ontario GSC Aeromagnetic<br>Series                                                                                                                |  | GSC Map 294G                                                     | 1:50,000                                   |
| ODM-GSC                | 1970 | Timmins, Cochrane, Timiskaming and Sudbury<br>Districts, Ontario, total field contour map<br>Aeromagnetic Series                                                  |  | GSC Map 7085G                                                    | 1:250,000                                  |
| ODM-GSC                | 1970 | Watabeag River; Timiskaming and Cochrane<br>Districts. Aeromagnetic Series                                                                                        |  | GSC Map 8438G                                                    | 1:31,680                                   |
| ODM-GSC                | 1981 | Timiskaming-Kapuskasing Region; Magnetic<br>Anomaly map series (Residual Total Field)                                                                             |  | Map 1563A                                                        | 1:1,000,000                                |
| ODM-GSC                | 1984 | Timmins; Ontario and Quebec, Preliminary Magnetic<br>Anomaly Map (Residual Total Field)                                                                           |  | NM-17                                                            | 1:1,000,000                                |
| OCS                    | 1984 | Airborne Electromagnetic Survey Total<br>Intensity Magnetic Survey Fgan Township<br>NTS 42A/NF Matheson-Black River, Cochrane District<br>by Questor Surveys Ltd. |  | OCS Map 80 603                                                   | 1:20,000                                   |
| OCS-GSC                | 1979 | Airborne Gamma-Ray Spectrometric Total Count,<br>Timmins, NTS 42A                                                                                                 |  | OCS Map 80 280<br>GSC Map 35142G                                 | 1:250,000                                  |

| Author                                                          | Date | SELECTED REFERENCES                                                                                                                           |  | Reference                        | Map Scales and/or Report Pages |
|-----------------------------------------------------------------|------|-----------------------------------------------------------------------------------------------------------------------------------------------|--|----------------------------------|--------------------------------|
|                                                                 |      | Title                                                                                                                                         |  |                                  |                                |
| OGS-GSC                                                         | 1979 | Airborne Gamma-Ray Spectrometric Potassium (percent), Timmins, NTS 42A                                                                        |  | OGS Map 80 281<br>GSC Map 35142G | 1:250,000                      |
| OGS-GSC                                                         | 1979 | Airborne Gamma-Ray Spectrometric Uranium (eU), Timmins, NTS 42A                                                                               |  | OGS Map 80 282<br>GSC Map 35142G | 1:250,000                      |
| OGS-GSC                                                         | 1979 | Airborne Gamma-Ray Spectrometric Thorium (eTh), Timmins, NTS 42A                                                                              |  | OGS Map 80 283<br>GSC Map 35142G | 1:250,000                      |
| OGS-GSC                                                         | 1979 | Airborne Gamma-Ray Spectrometric eU/Th Ratio, Timmins, NTS 42A                                                                                |  | OGS Map 80 284<br>GSC Map 35142G | 1:250,000                      |
| OGS-GSC                                                         | 1979 | Airborne Gamma-Ray Spectrometric eU/K Ratio, Timmins, NTS 42A                                                                                 |  | OGS Map 80 285<br>GSC Map 35142G | 1:250,000                      |
| OGS-GSC                                                         | 1979 | Airborne Gamma-Ray Spectrometric eTh/K Ratio, Timmins, NTS 42A                                                                                |  | OGS Map 80 286<br>GSC Map 35142G | 1:250,000                      |
| OGS-GSC                                                         | 1979 | Airborne Gamma-Ray Spectrometric Profiles of Integral U, Th, K, U/Th, U/K, Th/K for Line 53(2) Timmins, NTS 42A                               |  | OGS Map 80 308<br>GSC Map 35142G | 1:250,000                      |
| OGS-GSC                                                         | 1979 | Airborne Gamma-Ray Spectral Profiles of Integral U, Th, K, U/Th, U/K, Th/K, for Line 54(1), Timmins, NTS 42A                                  |  | OGS Map 80 309<br>GSC Map 35142G | 1:250,000                      |
| Averill, S.A.<br>MacNeil, K.A.<br>Huneault, R.G.<br>Baker, C.L. | 1986 | GEOLOGICAL MAPS AND REPORTS<br><br>Rotasonic drilling operations (1984) overburden heavy mineral studies, Matheson area, District of Cochrane |  | OGS<br>OFR 5569                  | 6lp.                           |

| SELECTED REFERENCES |                                                  | Date                                                                                                                                                      | Author                                   | Reference   | Map<br>Scale<br>and/or<br>Report<br>Pages |
|---------------------|--------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------|-------------|-------------------------------------------|
| Title               |                                                  |                                                                                                                                                           |                                          |             |                                           |
| 1986                | Baker, C.L.<br>Steele, K.G.<br>McClenaghan, M.B. | Gold grains in sonic drill core samples (1985) from the Lake Abitibi-Matheson area, District of Cochrane. Geophysical/Geochemical Series Preliminary Map. | OGS Map P.2958                           | 1:100,000   |                                           |
| 1984                | Baker, C.L.<br>Steele, K.G.<br>Fortescue, J.A.C. | Reconnaissance Till Sampling Program in the Matheson Area, District of Cochrane                                                                           | Summary of Field Work 1984<br>OGS MP 119 | pj. 295-298 |                                           |
| 1971                | Ferguson, S.A.<br>Groen, H.A.<br>Haynes, R.      | Gold deposits of Ontario.                                                                                                                                 | ODM Min Res Circ.<br>No. 13 pt. 1        | 315p.       |                                           |
| 1962                | Ginn, R.M.<br>Leahy, F.J.<br>Savage, W.S.        | Matheson-Black Sheet, District of Cochrane                                                                                                                | ODM Map P.119                            | 1:63,760    |                                           |
| 1960                | Hughes, O.L.                                     | Surficial Geology of Kirkland Lake, Timiskaming and Cochrane Districts                                                                                    |                                          | 1:126,720   |                                           |
| 1965                | Hughes, O.L.<br>Wright, Jr. H.E.<br>Frey, D.G.   | Surficial Geology of Part of the Cochrane District Ontario Canada                                                                                         | Geol. Soc. of America Spec. Paper #84    |             |                                           |
| 1986                | Jensen, L.S.<br>Baker, C.L.                      | Preliminary results of bedrock samples from the sonic drilling program (1985) in the Lake Abitibi-Matheson area                                           | OGS Map P.2986                           | 1:100,000   |                                           |
| 1931                | Laird, H.C.                                      | German-Currie Area, Cochrane District, Ontario                                                                                                            | ODM AR vol.40<br>pt.3<br>Map 40B         | p.1-22      |                                           |

| SELECTED REFERENCES |      |                                                                                                            | Reference                                                                    | Map<br>Scale<br>and/or<br>Report<br>Pages |
|---------------------|------|------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------|-------------------------------------------|
| Author              | Date | Title                                                                                                      |                                                                              |                                           |
| Leahy, E.J.         | 1965 | Geology of Currie and Bowman Townships, District of Cochrane, Ontario.                                     | ODM GR 40<br>Map 2071                                                        | 22p.                                      |
| Lee, H.A.           | 1979 | Northern Ontario Engineering Terrain Study, Data Base Map Kirkland Lake                                    | OCS Map 5030                                                                 | 1:100,000                                 |
| Malczak, J.         | 1985 | Industrial Mineral Potential of the Black River-Matheson (BRIM) area, District of Cochrane                 | Summary of<br>Field Work<br>OCS MP 126                                       | p.326-328                                 |
| Malczak, J.         | 1985 | Overview of the Industrial Mineral Potential of the Black River-Matheson (BRIM) area (abstract)            | OCS Geoscience<br>Research Seminar<br>& Open House '85<br>Dec.4-5,1985 Abst. | p.9                                       |
| Middleton, R.S.     | 1975 | Gravity control network in the Timmins, Matheson and Cobalt area, Cochrane and Timiskaming Districts, Ont. | ODM GR 127                                                                   |                                           |
| Moore, E.S.         | 1936 | Geology and Ore Deposits of the Ramore Area, Cochrane District                                             | ODM AR<br>v.45, pt.6<br>Map 45d                                              | p.1-37                                    |
| Pyke, D.R.          | 1974 | Watabeag River Area, District of Cochrane and Timiskaming Ontario Division of Mines                        | Summary of<br>Field Work<br>OCS MP 59                                        | pg. 73-77                                 |
| Pyke, D.R.          | 1976 | Watabeag River area, Cochrane and Timiskaming Districts                                                    | ODM Map P.1078                                                               | 1:63 360                                  |
| Pyke, D.R.          | 1978 | No. 11 Regional Geology of the Timmins-Matachewan Area, District of Cochrane & Timiskaming, Ontario        | Summary of<br>Field Work<br>OCS MP 82                                        | pg. 73-77                                 |

| SELECTED REFERENCES                                       |                                                                                                                                                                      | Date | Author | Reference                                                                           | Map Scales and/or Report Pages |
|-----------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------|------|--------|-------------------------------------------------------------------------------------|--------------------------------|
| Title                                                     |                                                                                                                                                                      |      |        |                                                                                     |                                |
| Pyke, D.R.                                                | Geology of the Watabeag Area, Districts of Cochrane and Timiskaming                                                                                                  | 1980 |        | QGS OFR 5290                                                                        | 125 p.                         |
| Richard, J.A.<br>McClenaghan, M.B.                        | Quaternary geology of the Watabeag River area, District of Cochrane, (42A/7)                                                                                         | 1985 |        | QGS Map P.2950                                                                      | 1:50,000                       |
| Richard, J.A.                                             | Quaternary Geology of the Porquouis Junction 42A/10 and Watabeag River 42A/7 Map Areas, District of Cochrane                                                         | 1984 |        | Summary of Field Work<br>QGS MP 119                                                 | pg. 283-286                    |
| Shklanka, R.                                              | Iron deposits of Ontario                                                                                                                                             | 1968 |        | ODM Min. Res. Circ. No. 11                                                          |                                |
| Sutherland, T.F.<br>McMillan, J.G.<br>Bartlett, J. et al. | Mines of Ontario                                                                                                                                                     | 1923 |        | ODM AR v.31, pt.10                                                                  | p.11-86                        |
| Wright, D.G.H.                                            | Geology of the Watabeag area, Timiskaming and Cochrane Districts                                                                                                     | 1922 |        | ODM Map 31D<br>AR v.31, pt.7                                                        | 1:63 360<br>33p.               |
| Grady, J.C.                                               | <u>JOURNAL ARTICLES, THESES, TECHNICAL PAPERS</u><br><br>Matachewan Diabase Dykes of Northeastern Ontario; unpublished M.Sc., McMaster University, Hamilton, Ontario | 1950 |        | ODM MP 2<br>1961 by R.M. Ginn<br>Biblig. of Thesis on the Precamb. Geol. of Ontario |                                |

# NOTES AND ADDENDA

Aerial Photography  
on file in Kirkland Lake  
Resident Geologist's Office

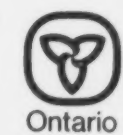
| YEAR | ROLL | FLIGHT LINE | PHOTO |
|------|------|-------------|-------|
| 1971 | 4816 | 8           | 236   |
|      | 4816 | 8           | 237   |
|      | 4816 | 8           | 238   |
|      | 4816 | 8           | 239   |
|      | 4816 | 8           | 240   |
|      | 4816 | 8           | 241   |
|      | 4816 | 8           | 242   |
| 1971 | 4817 | 9           | 214   |
|      | 4817 | 9           | 215   |
|      | 4817 | 9           | 216   |
|      | 4817 | 9           | 217   |
|      | 4817 | 9           | 218   |
|      | 4817 | 9           | 219   |
|      | 4817 | 9           | 220   |
| 1971 | 4818 | 9           | 116   |
|      | 4818 | 9           | 117   |
|      | 4818 | 9           | 118   |
|      | 4818 | 9           | 119   |
|      | 4818 | 9           | 120   |
|      | 4818 | 9           | 121   |

# GSC INDEX TO PUBLICATION

Words searched: Egan Township

| Index<br>Volume    | Listing:                                                     | Report<br>Volume | Part | Page |
|--------------------|--------------------------------------------------------------|------------------|------|------|
| 1927<br>to<br>1950 | Egan Township<br>Watabeag Lake Area, Ontario<br>Gold Deposit | M-192            |      | 148  |

GDIF FORM NO. 9



Ministry of  
Northern Development  
and Mines

ONTARIO GEOLOGICAL SURVEY

PROPERTY LOCATION MAP

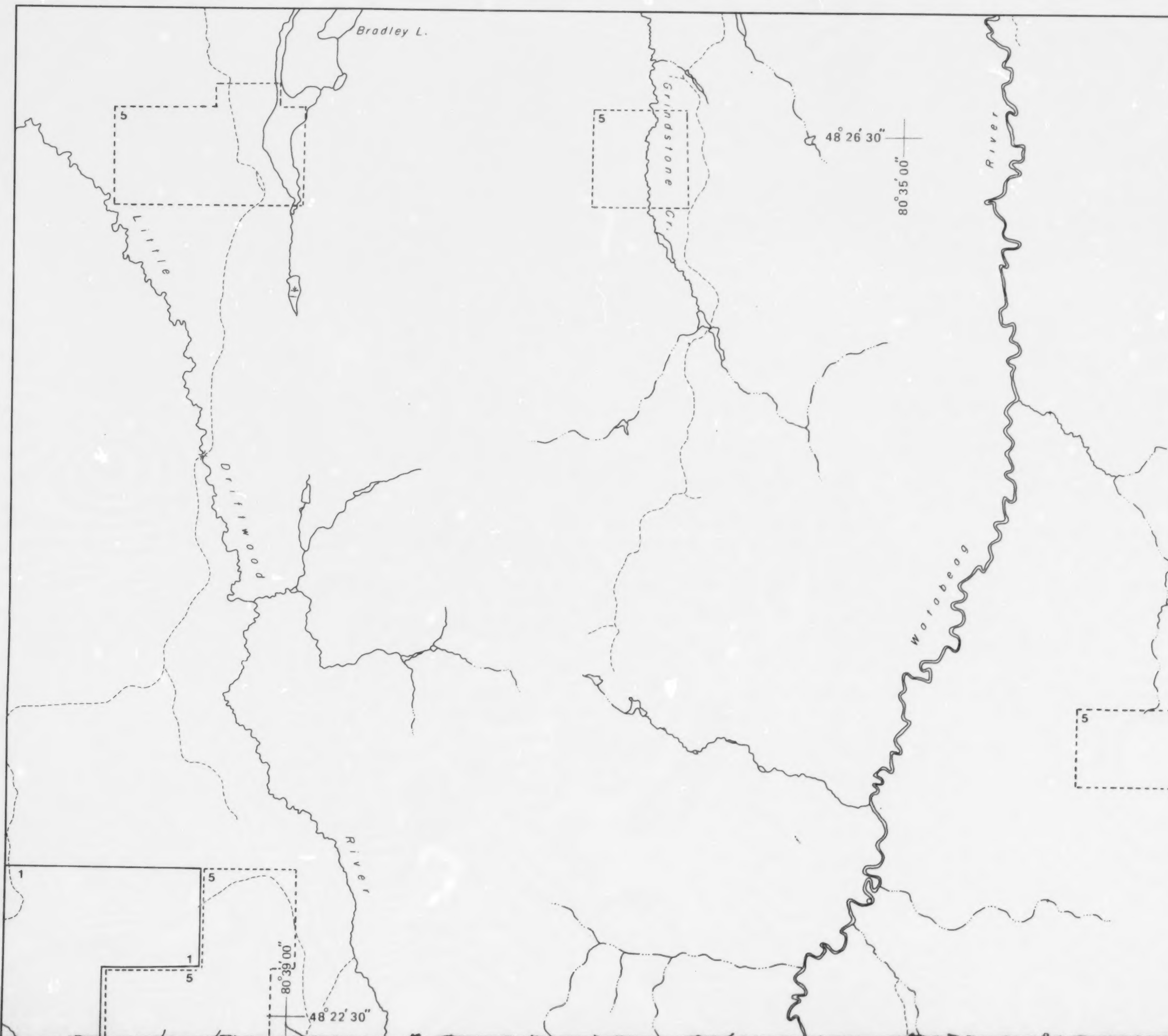
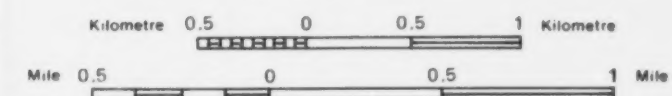
GEOLOGICAL DATA INVENTORY FOLIO 342

(Map 1 of 2)

## EGAN TOWNSHIP

DISTRICT OF COCHRANE

Scale 1:31 680



EXPLORATION DATA FILE AREAS

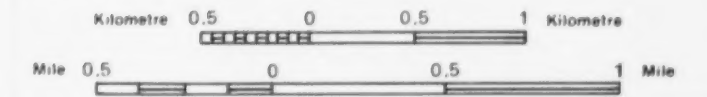


Reference number is always inside work area outlined.

# EGAN TOWNSHIP

DISTRICT OF COCHRANE

Scale 1:31 680



## EXPLORATION DATA FILE AREAS

- Reference number is always inside work area outlined. See listing in text pages.
- Small area exploration.

# TYPES OF DATA SHOWN ON THIS MAP

## GEOCHEMICAL AND GEOCHRONOLOGICAL DATA

- ☐ Geochemical sample site, with reference number
- ☐ Area of geochemical sampling, with reference number
- ☐ Age dating material sampling site, with reference number

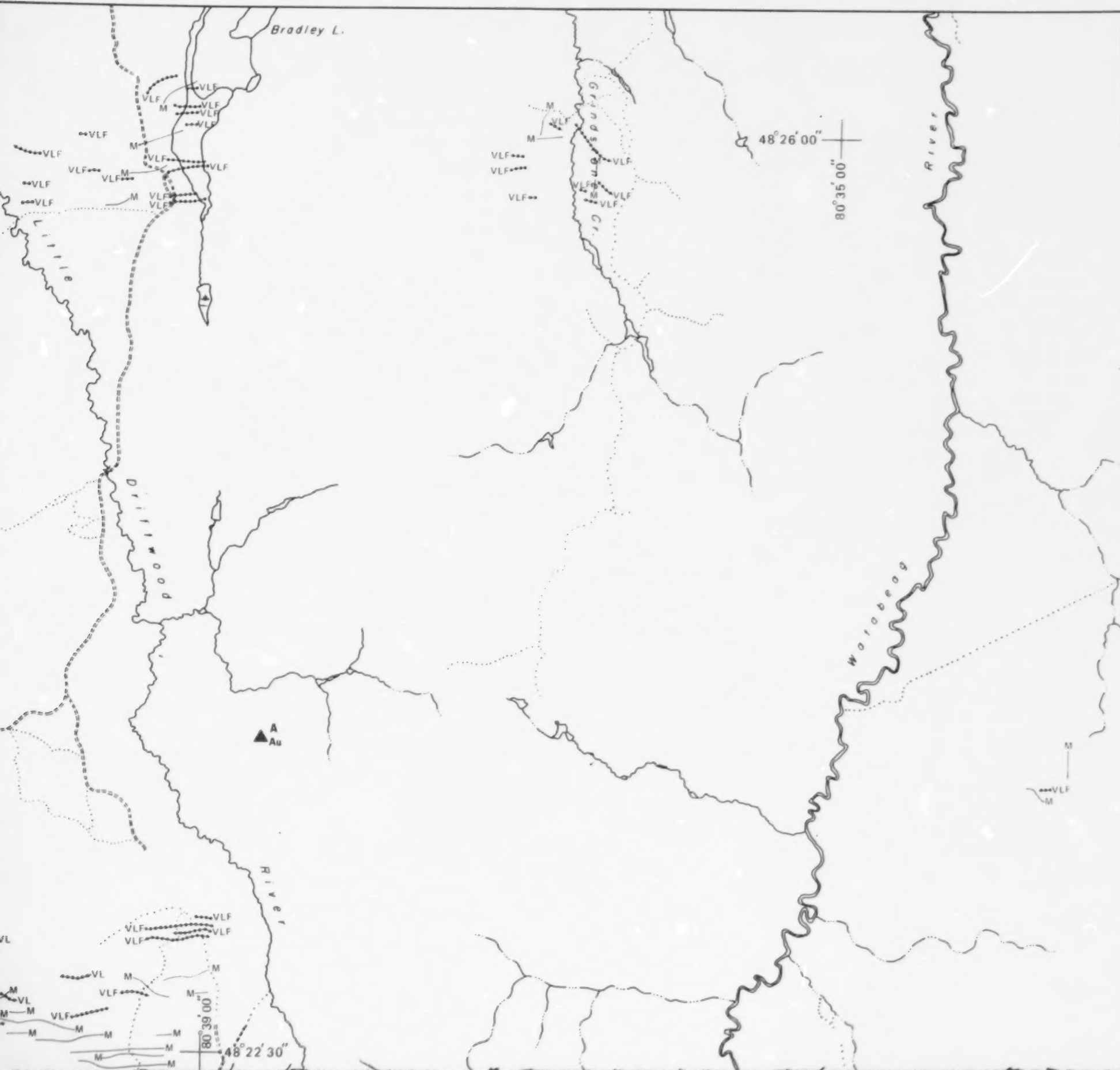
## GEOPHYSICAL ANOMALIES

- ☐ Airborne magnetic anomaly
- ☐ Airborne electromagnetic anomaly  
Length of anomaly along flight line
- ☐ Airborne electromagnetic anomaly  
Location of anomaly along flight line
- ☐ Airborne electromagnetic anomaly  
Conductor axis: definite, probable, possible
- ☐ Airborne radiometric anomaly
- ☐ Ground magnetic anomaly
- ☐ Ground electromagnetic anomaly  
( VL - Vertical loop; HL - Horizontal loop;  
VLF - Very low freq; Turam; JEM -  
Crone Em - 16 )
- ☐ Ground radiometric anomaly
- ☐ Induced polarization anomaly
- ☐ Self potential anomaly
- ☐ Audio-frequency magnetic anomaly  
(total intensity)
- ☐ Resistivity anomaly
- ☐ Gravity anomaly

## MISCELLANEOUS DATA

- ☐ Trenching, pit
- ☐ Adit
- ☐ Open pit
- ☐ Rock quarry
- ☐ Sand and/or gravel pit





Ministry of  
Northern Development  
and Mines

ONTARIO GEOLOGICAL SURVEY

EXPLORATION DATA MAP

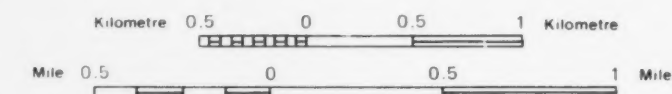
GEOLOGICAL DATA INVENTORY FOLIO 342

(Map 2 of 2)

## EGAN TOWNSHIP

DISTRICT OF COCHRANE

Scale 1:31 680



### GEOLOGICAL AND MINING SYMBOLS

#### TYPES OF DATA SHOWN ON THIS MAP

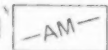
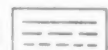
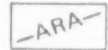
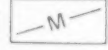
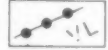
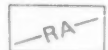
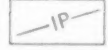
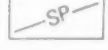
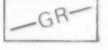
##### MINERAL OCCURRENCES

- ☒ Mineral occurrence at surface, with reference letter
- ☐ Mineral occurrence with shaft, depth given with reference letter
- ☐ Mineral occurrence reported but exact location uncertain, with reference letter
- ☐ Mineralized float with reference letter

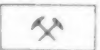
##### DRILLHOLE

- ☐ Location of single drillhole, with reference number
- ☐ Location of closely spaced group of drillholes, with reference number
- ☐ Drillhole, exact location uncertain, with reference number
- ☐ Property with underground drillholes in this general area, with reference number
- ☐ Property with drillholes which have not been plotted on map, with reference number
- ☐ Reverse circulation drillhole; churn drilling, with reference number

# GEOPHYSICAL ANOMALIES

- ☐  Airborne magnetic anomaly
- ☐  Airborne electromagnetic anomaly  
Length of anomaly along flight line
- ☐  Airborne electromagnetic anomaly  
Location of anomaly along flight line
- ☐  Airborne electromagnetic anomaly  
Conductor axis: definite, probable, possible
- ☐  Airborne radiometric anomaly
- ☐  Ground magnetic anomaly
- ☐  Ground electromagnetic anomaly  
( VL - Vertical loop; HL - Horizontal loop;  
VLF - Very low freq; Turam; JEM -  
Crone Em - 16 )
- ☐  Ground radiometric anomaly
- ☐  Induced polarization anomaly
- ☐  Self potential anomaly
- ☐  Audio-frequency magnetic anomaly  
(total intensity)
- ☐  Resistivity anomaly
- ☐  Gravity anomaly

## MISCELLANEOUS DATA

- |                                                                                                              |                |                                                                                                              |                        |
|--------------------------------------------------------------------------------------------------------------|----------------|--------------------------------------------------------------------------------------------------------------|------------------------|
| <input type="checkbox"/>  | Trenching, pit | <input type="checkbox"/>  | Rock quarry            |
| <input type="checkbox"/>  | Adit           | <input type="checkbox"/>  | Sand and/or gravel pit |
| <input type="checkbox"/>  | Open pit       |                                                                                                              |                        |

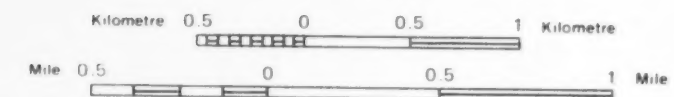
NOTE: Consult the text that accompanies this map for pertinent lists of data, references, and abbreviations.



# EGAN TOWNSHIP

DISTRICT OF COCHRANE

Scale 1:31 680



## GEOLOGICAL AND MINING SYMBOLS

TYPES OF DATA SHOWN ON THIS MAP

### MINERAL OCCURRENCES

- ☒ **cp ▲ A.** Mineral occurrence at surface, with reference letter
- ☐ **Au ▮ A.  
84'** Mineral occurrence with shaft, depth given with reference letter
- ☐ **Ag ▲ A.** Mineral occurrence reported but exact location uncertain, with reference letter
- ☐ **cp ● A.** Mineralized float with reference letter

### DRILLHOLE

- ☐ **●<sup>2</sup>** Location of single drillhole, with reference number
- ☐ **⊙<sup>2</sup>** Location of closely spaced group of drillholes, with reference number
- ☐ **⊙<sup>2</sup>** Drillhole, exact location uncertain, with reference number
- ☐ **⊖<sup>2</sup>** Property with underground drillholes in this general area, with reference number
- ☐ **○<sup>2</sup>** Property with drillholes which have not been plotted on map, with reference number
- ☐ **⊕<sup>2</sup>** Reverse circulation drillhole; churn drilling, with reference number



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